

Adaptive Prism Sensor Calibration: Version 2

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Project-owned synthetic sample, 2026-09-04

Evidence boundary: project-owned synthetic source; not a benchmark, customer result, scientific result, or paid delivery.
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Abstract

This corrected synthetic study describes a prism-lattice sensor and its cobalt drift coefficient. Thermal stabilization precedes every measurement. Version 2 is retained beside Version 1 so a collection ledger can expose rather than silently collapse related versions.

Purpose

Version 2 changes declared settings without overwriting the earlier source. It does not claim that the fictional instrument exists or that the method generalizes to real papers.

Corrected calibration method

The revised response model is

$$r(t) = g_2 s(t) + b_2.$$

The symbols may be linearized by a PDF text extractor, so the equation must be checked against the source page rather than trusted as plain text alone.

Setting	Version 2 value
Calibration interval	12 minutes
Sampling rate	480 Hz
Reference wavelength	532 nm

Version 2 supersedes the interval table in Version 1. Extracted table reading order remains an explicit weakness of the plain-text baseline.

Limits and decision

The declared temperature range is 16 to 28 degrees Celsius. Humidity coupling was measured but not modeled. Local calibration reduces spectral drift only inside this fictional setup.

Version 2 is suitable for a bounded extraction and citation demonstration. It is not evidence for OCR, semantic retrieval, a knowledge graph, or production deployment.